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L1	107	((schedul$3 execut$3) with (parallel$3 batch$3 interactive) near3 (process task thread$3) with (idl$3 free availabl$7) with (time cpu processor))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/14 13:52
L2	163	((schedul$3 execut$3) with (task$3 process) with (idl$3 free availabl$7) with (time cpu processor)) same ((parallel$3 batch$3 interactive) near3 (process task thread$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/14 13:52
L3	51	l2 and "718"/$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/14 13:56
L4	38	l1 and "718"/$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/14 13:56
L5	1	l2 and 718/101.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/14 13:56
L6	20	l2 and 718/102.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/14 13:56
L7	7	l2 and 718/103.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/14 13:56

L8	8	l2 and 718/107.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2008/02/14 13:56
L9	9	l2 and 718/108.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2008/02/14 13:56
L10	1	l1 and 718/101.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2008/02/14 13:57
L11	15	l1 and 718/102.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2008/02/14 13:57
L12	0	l1 and 718/103.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2008/02/14 13:57
L13	6	l1 and 718/107.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2008/02/14 13:57
L14	8	l1 and 718/108.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2008/02/14 13:57

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441 Design, implementation and testing of an interactive video retrieval system
Georgina Gaughan, Alan F. Smeaton, Cathal Gurrin, Hyowon Lee, Kieran McDonald
November 2003 **MIR '03:** Proceedings of the 5th ACM SIGMM international workshop on Multimedia
Publisher: ACM
Full text available: 🗎 pdf(504.99 KB)   Additional Information: full citation, abstract, references, cited by,

> In this paper we present and discuss the system we developed for the search task of the TRECV
> in an interactive search task. To do this we will look at the strategy we used in designing the sy:
> evaluate ...

Keywords: interface design, system evaluation, usability testing, video analysis, video browsin

442 Question answering from the web using knowledge annotation and knowledge mining tech
Jimmy Lin, Boris Katz
November 2003 **CIKM '03:** Proceedings of the twelfth international conference on Information and k
Publisher: ACM
Full text available: 🗎 pdf(190.12 KB)   Additional Information: full citation, abstract, references, cited by,

> We present a strategy for answering fact-based natural language questions that is guided by a c
> user queries. Our approach, implemented in a system called Aranea, extracts answers from the
> techniques: ...

Keywords: data-redundancy, semistructured data

443 Replication and retrieval strategies of multidimensional data on parallel disks
Chung-Min Chen, Christine T. Cheng
November 2003 **CIKM '03:** Proceedings of the twelfth international conference on Information and k
Publisher: ACM
Full text available: 🗎 pdf(197.38 KB)   Additional Information: full citation, abstract, references, cited by, i

> Aside from enhancing data availability during disk failures, replication of data is also used to spe
> read-intensive applications. There are two issues that need to be addressed: (a) data placement
> the ...

Keywords: disks, multi-dimensional declustering, parallel, replication

444 GADGET: a toolkit for optimization-based approaches to interface and display generation
James Fogarty, Scott E. Hudson
November 2003 **UIST '03:** Proceedings of the 16th annual ACM symposium on User interface softwa
Publisher: ACM
Full text available: pdf(823.58 KB)   Additional Information: full citation, abstract, references, cited by,

> Recent work is beginning to reveal the potential of numerical optimization as an approach to ge
> displays. Optimization-based approaches can often allow a mix of independent goals and constr;
> that would ...

> **Keywords**: display generation, layout algorithms, numerical optimization, perceptually optimize

445 Beyond AOP: toward naturalistic programming
Cristina Videira Lopes, Paul Dourish, David H. Lorenz, Karl Lieberherr
October 2003 **OOPSLA '03:** Companion of the 18th annual ACM SIGPLAN conference on Object-ori
systems, languages, and applications
Publisher: ACM
Full text available: pdf(275.64 KB)   Additional Information: full citation, abstract, references, cited by,

> Software understanding for documentation, maintenance or evolution is one of the longest-stan
> Science. The use of "high-level" programming paradigms and object-oriented languages helps, l
> far from solving ...

> **Keywords**: aspect-oriented programming, cognitive foundations of programming, language des

446 How java programs interact with virtual machines at the microarchitectural level
Lieven Eeckhout, Andy Georges, Koen De Bosschere
October 2003 **OOPSLA '03:** Proceedings of the 18th annual ACM SIGPLAN conference on Object-or
languages, and applications
Publisher: ACM
Full text available: pdf(348.88 KB)   Additional Information: full citation, abstract, references, cited by,

> Java workloads are becoming increasingly prominent on various platforms ranging from embedc
> purpose computers to high-end servers. Understanding the implications of all the aspects involv
> workloads, is thus ...

> **Keywords**: Java workloads, performance analysis, statistical data analysis, virtual machine tecl
> characterization

447 Software factories: assembling applications with patterns, models, frameworks and tools
Jack Greenfield, Keith Short
October 2003 **OOPSLA '03:** Companion of the 18th annual ACM SIGPLAN conference on Object-ori
systems, languages, and applications
Publisher: ACM
Full text available: pdf(707.51 KB)   Additional Information: full citation, abstract, references, cited by,

> The confluence of component based development, model driven development and software proc
> to application development based on the concept of software factories. This approach promises
> and predictability ...

> **Keywords**: design patterns, domain-specific languages, model-driven development, software f;
> lines

448 <u>Separating agreement from execution for byzantine fault tolerant services</u>

Jian Yin, Jean-Philippe Martin, Arun Venkataramani, Lorenzo Alvisi, Mike Dahlin
October 2003 **SOSP '03:** Proceedings of the nineteenth ACM symposium on Operating systems prir
Publisher: ACM

Full text available: pdf(355.08 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>,

> We describe a new architecture for Byzantine fault tolerant state machine replication that separ:
> requests from *execution* that processes requests. This separation yields two fundamental and pr
>
> **Keywords**: byzantine fault tolerance, confidentiality, reliability, security, state machine replicatir

449 <u>Beyond theory: making single-sourcing actually work</u>

Liz Fraley
October 2003 **SIGDOC '03:** Proceedings of the 21st annual international conference on Documenta
Publisher: ACM

Full text available: pdf(230.43 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terr</u>

> In this paper, I discuss how we made single-sourcing work at Juniper Networks. This is a practic
> problems, and successes.
>
> **Keywords**: Arbortext, E3, Epic, FrameMaker, Interwoven, Java, Juniper Networks, TeamSite, \\
> branching, case study, chunking, commit, documentation, modular writing, publishing, single so

450 <u>Building a massively multiplayer game for the million: Disney's Toontown Online</u>

Mark R. Mine, Joe Shochet, Roger Hughston
October 2003 **Computers in Entertainment (CIE)**, Volume 1 Issue 1
Publisher: ACM

Full text available: pdf(2.37 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>cited by</u>, <u>index terms</u>

> This paper presents an overview of the lessons learned building Disney's Toontown Online, a 3D
> game (MMP) for children ages seven and older. The paper is divided into three main parts. The I
> highlights ...
>
> **Keywords**: 3D, Internet, computer graphics, multiplayer games, online games

451 <u>Multimode scan: Test per clock BIST for IP cores</u>

Adit D. Singh, Markus Seuring, Michael Gössel, Egor S. Sogomonyan
October 2003 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, v
Publisher: ACM

Full text available: pdf(168.82 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terr</u>

> Built-in self-test (BIST) is an attractive design-for-test methodology for core-based SoC design I
> for test access when tests are generated and evaluated within the core itself. However, the scar
> being ...
>
> **Keywords**: BIST, SoC, digital testing, scan

452 <u>Abstract state machines capture parallel algorithms</u>

Andreas Blass, Yuri Gurevich
October 2003 **ACM Transactions on Computational Logic (TOCL)**, Volume 4 Issue 4

Publisher: ACM

Full text available: 📄 pdf(610.28 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, .

We give an axiomatic description of parallel, synchronous algorithms. Our main result is that ev‹ simulated, step for step, by an abstract state machine with a background that provides for mult

Keywords: ASM thesis, Parallel algorithm, abstract state machine, postulates for parallel comp‹

453 <u>Optimizing data aggregation for cluster-based internet services</u>

Lingkun Chu, Hong Tang, Tao Yang, Kai Shen
October 2003 **ACM SIGPLAN Notices,** Volume 38 Issue 10
Publisher: ACM

Full text available: 📄 pdf(275.38 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index ter‹</u>

Large-scale cluster-based Internet services often host partitioned datasets to provide increment aggregation of results produced from multiple partitions is a fundamental building block for the ‹ This paper ...

Keywords: cluster-based network services, fault tolerance, load-adaptive tree formation, respo aggregation, throughput

454 <u>The involvement of human resources in large scale data mining projects</u>

Markus Hofmann, Brendan Tierney
September 2003 **ISICT '03:** Proceedings of the 1st international symposium on Information and con
Publisher: Trinity College Dublin

Full text available: 📄 pdf(3.78 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

Data mining projects are complex and have a high failure rate. In order to improve the success only important to follow a predefined life cycle but it is also vital to the overall success of the pr‹

455 <u>Audio enriched links: web page previews for blind users</u>

Peter Parente
September 2003 **ACM SIGACCESS Accessibility and Computing,** Issue 77-78
Publisher: ACM

Full text available: 📄 pdf(229.96 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, ‹

Audio Enriched Links provide previews of linked web pages to users with visual impairments. Be hyperlink, the Audio Enriched Links software presents a spoken summary of the next page inclu‹ the current ...

Keywords: accessibility, speech preview, visual impairment, web page preview

456 <u>Which semantic web?</u>

Catherine C. Marshall, Frank M. Shipman
August 2003   **HYPERTEXT '03:** Proceedings of the fourteenth ACM conference on Hypertext and h
Publisher: ACM

Full text available: 📄 pdf(329.99 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, ‹

Through scenarios in the popular press and technical papers in the research literature, the prom raised a number of different expectations. These expectations can be traced to three different p‹ Web. ...

Keywords: digital libraries, hypertext, information systems, knowledge acquisition, knowledge web

457 Maximizing the spread of influence through a social network

David Kempe, Jon Kleinberg, Éva Tardos

August 2003   **KDD '03:** Proceedings of the ninth ACM SIGKDD international conference on Knowle(mining

Publisher: ACM

Full text available: pdf(198.28 KB)   Additional Information: full citation, abstract, references, cited by,

Models for the processes by which ideas and influence propagate through a social network have domains, including the diffusion of medical and technological innovations, the sudden and wides strategies ...

Keywords: approximation algorithms, diffusion of innovations, social networks, viral marketing

458 An evaluation of speculative instruction execution on simultaneous multithreaded processo

Steven Swanson, Luke K. McDowell, Michael M. Swift, Susan J. Eggers, Henry M. Levy

August 2003   **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 3

Publisher: ACM

Full text available: pdf(578.85 KB)   Additional Information: full citation, abstract, references, index ten

Modern superscalar processors rely heavily on speculative execution for performance. For exam| that on a 6-issue superscalar, 93% of committed instructions for SPECINT95 are speculat processor ...

Keywords: Instruction-level parallelism, multiprocessors, multithreading, simultaneous multith level parallelism

459 OCB: A block-cipher mode of operation for efficient authenticated encryption

Phillip Rogaway, Mihir Bellare, John Black

August 2003   **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issu

Publisher: ACM

Full text available: pdf(568.74 KB)   Additional Information: full citation, abstract, references, cited by, i

We describe a parallelizable block-cipher mode of operation that simultaneously provides privac' encrypts-and-authenticates a nonempty string $M \in \lcub 0, 1 \rcub^*$ using $\Box \vertbar M \&$ve

Keywords: AES, authenticity, block-cipher usage, cryptography, encryption, integrity, modes o security, standards

460 BRIDJE over a language barrier: cross-language information access by integrating translat

Tetsuya Sakai, Makoto Koyama, Masaru Suzuki, Akira Kumano, Toshihiko Manabe

July 2003   **Proceedings of the sixth international workshop on Information retrieval wi(Volume 11**, Volume 11

Publisher: Association for Computational Linguistics

Full text available: pdf(122.39 KB)   Additional Information: full citation, abstract, references, cited by

This paper describes two new features of the BRIDJE system for cross-language information acc *partial disambiguation* function of the Bi-directional Retriever, which can be used for search requ language ...

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461 <u>Large-scale network simulation techniques: examples of TCP and OSPF models</u>
Garrett R. Yaun, David Bauer, Harshad L. Bhutada, Christopher D. Carothers, Murat Yuksel, Shivku
July 2003   **ACM SIGCOMM Computer Communication Review**, Volume 33 Issue 3
Publisher: ACM
Full text available: 🔃 <u>pdf(587.00 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u> .

> Simulation of large-scale networks remains to be a challenge, although various network simulat·
> paper, we identify fundamental issues for large-scale networks simulation, and porpose new tec
> First, we ...

Keywords: OSPF, TCP, large-scale network simulation, optimistic synchronization protocol

462 <u>Improving legal quality: an application report</u>
Tom M. van Engers, Margherita R. Boekenoogen
June 2003   **ICAIL '03:** Proceedings of the 9th international conference on Artificial intelligence a
Publisher: ACM
Full text available: 🔃 <u>pdf(234.73 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terr</u>

> Problems with legal quality will not only increase effort and costs of the law enforcement organi:
> the regulating power of the legislator. Unintended use or even abuse of the law may be the resu
> should ...

Keywords: AI and law, knowledge engineering, knowledge modeling, knowledge representatior
and validation

463 <u>Inferential queueing and speculative push for reducing critical communication latencies</u>
Ravi Rajwar, Alain Kägi, James R. Goodman
June 2003   **ICS '03:** Proceedings of the 17th annual international conference on Supercomputin(
Publisher: ACM
Full text available: 🔃 <u>pdf(568.93 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, i

> Communication latencies within critical sections constitute a major bottleneck in some classes o·
> workloads. In this paper, we argue for the use of Inferentially Queued Locks (IQLs) [31], not ju:
> synchronization but also ...

Keywords: data forwarding, inferential queueing, synchronization

464 Designing effective program visualization tools for reducing user's cognitive effort

M. Eduard Tudoreanu
June 2003   **SoftVis '03:** Proceedings of the 2003 ACM symposium on Software visualization
Publisher: ACM
Full text available: pdf(2.55 MB)   Additional Information: full citation, abstract, references, cited by,

Program visualization holds great potential for conveying information about the state and behav
However, barriers exist to the realization of this potential, and the limited knowledge about the
visualization ...

Keywords: automatic presentation, cognitive economy, program visualization, user studies

465 Optimizing data aggregation for cluster-based internet services

Lingkun Chu, Hong Tang, Tao Yang, Kai Shen
June 2003   **PPoPP '03:** Proceedings of the ninth ACM SIGPLAN symposium on Principles and pra
programming
Publisher: ACM
Full text available: pdf(275.38 KB)   Additional Information: full citation, abstract, references, index ten

Large-scale cluster-based Internet services often host partitioned datasets to provide increment
aggregation of results produced from multiple partitions is a fundamental building block for the
This paper ...

Keywords: cluster-based network services, fault tolerance, load-adaptive tree formation, respo
aggregation, throughput

466 Bitslice: representation without taxation

Robert Bernecky, Peter Wooster
June 2003   **APL '03:** Proceedings of the 2003 conference on APL: stretching the mind
Publisher: ACM
Full text available: pdf(105.97 KB)   Additional Information: full citation, abstract, references

We describe bitslice, a high-performance utility for parallel bit-level indexing of array data. We c
demonstrate the importance of bit arrays as a fundamental data type and of being able to view
array level. ...

467 DiST: a simple, reliable and scalable method to significantly reduce processor architecture

Sylvain Girbal, Gilles Mouchard, Albert Cohen, Olivier Temam
June 2003   **SIGMETRICS '03:** Proceedings of the 2003 ACM SIGMETRICS international conferen
modeling of computer systems
Publisher: ACM
Full text available: pdf(1.32 MB)   Additional Information: full citation, abstract, references, cited by, i

While architecture simulation is often treated as a methodology issue, it is at the core of most p
research works, and simulation speed is often the bottleneck of the typical trial-and-error reseal
simulation ...

Keywords: distributed simulation, processor architecture

468 <u>Large-Scale TCP Models Using Optimistic Parallel Simulation</u>
Garrett Yaun, Christopher D. Carothers, Shivkumar Kalyanaraman
June 2003   **PADS '03:** Proceedings of the seventeenth workshop on Parallel and distributed simu
Publisher: IEEE Computer Society
Full text available: <u>pdf(207.99 KB)</u> <u>Publisher Site</u> Additional Information: <u>full citation</u>, <u>abstract</u>, <u>cited by</u>, <u>index term:</u>

> Internet data traffic is doubling each year, yet bandwidth doesnot appear to be growing as fast
> shortfalls in available bandwidth, particularly at the "last mile" mayresult. To address these bani
> congestionproblems, ...

469 <u>DiST: a simple, reliable and scalable method to significantly reduce processor architecture</u>
Sylvain Girbal, Gilles Mouchard, Albert Cohen, Olivier Temam
June 2003   **ACM SIGMETRICS Performance Evaluation Review,**   Volume 31 Issue 1
Publisher: ACM
Full text available: <u>pdf(1.32 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>,

> While architecture simulation is often treated as a methodology issue, it is at the core of most p
> research works, and simulation speed is often the bottleneck of the typical trial-and-error reseai
> simulation ...

Keywords: distributed simulation, processor architecture

470 <u>Efficient use of memory bandwidth to improve network processor throughput</u>
Jahangir Hasan, Satish Chandra, T. N. Vijaykumar
June 2003   **ISCA '03:** Proceedings of the 30th annual international symposium on Computer arc
Publisher: ACM
Full text available: <u>pdf(184.83 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>

> We consider the efficiency of packet buffers used in packet switches built using network process
> typically implemented using DRAM, which provides plentiful buffering at a reasonable cost. The
> a ...

471 <u>Maintaining variance and k-medians over data stream windows</u>
Brain Babcock, Mayur Datar, Rajeev Motwani, Liadan O'Callaghan
June 2003   **PODS '03:** Proceedings of the twenty-second ACM SIGMOD-SIGACT-SIGART sympos
         database systems
Publisher: ACM
Full text available: <u>pdf(253.00 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, i

> The sliding window model is useful for discounting stale data in data stream applications. In this
> continually and only the most recent N elements are used when answering queries. We present
> solving ...

472 <u>Server scheduling in the L_p norm: a rising tide lifts all boat</u>
Nikhil Bansal, Kirk Pruhs
June 2003   **STOC '03:** Proceedings of the thirty-fifth annual ACM symposium on Theory of comp
Publisher: ACM
Full text available: <u>pdf(249.70 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, i

Often server systems do not implement the best known algorithms for optimizing average Quali
concern of that these algorithms may be insufficiently fair to individual jobs. The standard meth
QoS and fairness ...

Keywords: flow time, multilevel feedback, resource augmentation, scheduling, shortest elapse(
shortest remaining processing time

473 Estimating compilation time of a query optimizer

Ihab F. Ilyas, Jun Rao, Guy Lohman, Dengfeng Gao, Eileen Lin
June 2003   **SIGMOD '03:** Proceedings of the 2003 ACM SIGMOD international conference on Ma
Publisher: ACM

Full text available: pdf(292.76 KB)   Additional Information: full citation, abstract, references, cited by,

A query optimizer compares alternative plans in its search space to find the best plan for a giver
search space and the enumeration algorithm, optimizers vary in their compilation time and the (
they ...

474 Testing subgraphs in directed graphs

Noga Alon, Asaf Shapira
June 2003   **STOC '03:** Proceedings of the thirty-fifth annual ACM symposium on Theory of comp
Publisher: ACM

Full text available: pdf(220.89 KB)   Additional Information: full citation, abstract, references, cited by,

Let H be a fixed directed graph on h vertices, let G be a directed graph on n vertices and suppo{
have to be deleted from it to make it H-free. We show that in this case G contains at least $f(\varepsilon, H)$

Keywords: directed graphs, property testing, regularity lemma

475 DISE: a programmable macro engine for customizing applications

Marc L. Corliss, E. Christopher Lewis, Amir Roth
June 2003   **ISCA '03:** Proceedings of the 30th annual international symposium on Computer arc
Publisher: ACM

Full text available: pdf(335.30 KB)   Additional Information: full citation, abstract, references, cited by

Dynamic Instruction Stream Editing (DISE) is a cooperative software-hardware scheme for
customization functionality---e.g, safety/security checking, profiling, dynamic code decompressi
optimization---to an application. ...

476 A tight time lower bound for space-optimal implementations of multi-writer snapshots

Panagiota Fatourou, Faith Fich, Eric Ruppert
June 2003   **STOC '03:** Proceedings of the thirty-fifth annual ACM symposium on Theory of comp
Publisher: ACM

Full text available: pdf(232.46 KB)   Additional Information: full citation, abstract, references, cited by, i

A snapshot object consists of a collection of $m > 1$ components, each capable of storing a value
asynchronous shared-memory distributed system. It supports two operations: a process can UP

Keywords: lower bounds, shared-memory distributed computing, snapshot, space-optimal

477 Optimal sharing of bags of tasks in heterogeneous clusters

Micah Adler, Ying Gong, Arnold L. Rosenberg
June 2003   **SPAA '03:** Proceedings of the fifteenth annual ACM symposium on Parallel algorithm
Publisher: ACM

Full text available: pdf(289.05 KB)   Additional Information: full citation, abstract, references, cited by,

We prove that "FIFO" worksharing protocols provide asymptotically optimal solutions to a proble
of identically complex tasks in a heterogeneous network of workstations (HNOW) *n*. In the HNO'
seeks ...

Keywords: bags of tasks workloads, cluster computing, heterogeneous NOW, network of works

478 Integrated prefetching and caching in single and parallel disk systems

Susanne Albers, Markus Büttner
June 2003   **SPAA '03:** Proceedings of the fifteenth annual ACM symposium on Parallel algorithm
Publisher: ACM

Full text available: pdf(210.52 KB)   Additional Information: full citation, abstract, references, cited by,

We study integrated prefetching and caching in single and parallel disk systems. There exist twc
algorithms called *Aggressive* and *Conservative* for minimizing the total elapsed time in the singl

Keywords: caching, magnetic disk systems, prefetching

479 Interaction design case: VasSol CANVAS

Brian Herzfeldt, Marc Rettig
June 2003   **DUX '03:** Proceedings of the 2003 conference on Designing for user experiences
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CANVAS is a software product from VasSol, Inc., which uses input from MRI scanners to create
vasculature and accurately calculate blood flow. This case study reports on a nine-month effort i
commercial ...

Keywords: brand, collaboration, contextual inquiry, corporate identity, healthcare, human-com
design, interface design, medical imaging, observation, user research, user-centered

480 ANODR: anonymous on demand routing with untraceable routes for mobile ad-hoc networl

Jiejun Kong, Xiaoyan Hong
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In hostile environments, the enemy can launch traffic analysis against interceptable routing info
messages and data packets. Allowing adversaries to trace network routes and infer the motion ɾ
of those ...

Keywords: anonymity, broadcast, mobile ad-hoc network, on-demand routing, pseudonymity,

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